Bruhat Bengaluru Mahanagara Palike
Office of the Executive Engineer Electrical South, South Zone office complex, 9th main, 9th cross, Jayanagara 2nd block, Bengaluru - 560011
Email: ele.bbmp@gmail.com

No. EE/Ele/S/Qtn/01/2025-26.
Date: 21-06-2025

INVITATION FOR QUOTATION (Through GOK e-Procurement Portal only)

1. The Executive Engineer, Electrical South, BBMP, invites rates on behalf of the Chief Commissioner, BBMP Bengaluru through e-procurement portal of the Government of Karnataka (viz., https://kppp.karnataka.gov.in). The Tenderers are advised to note the minimum qualification criteria specified in the conditions.
2. Details may be downloaded from the e-procurement KPP portal of the Government of Karnataka.
3. Other details can be seen in the e-portal.

Table

Sl NO	Item Name	Unit	Qty
1	Supplying & fixing of 12 Mtr Highmast accessories that include Winch Plate, 250 KG Winch, 0.5 HP Motor, SS wire Rope 50 Mtr Length, Moulded Cable 4SqmmX3 Core 20 Mtr Length, D clamp Tumble,Crane charges, Labour charges	Each	1
2	Supplying & fixing of 16 Mtr Highmast accessories that include Winch Plate, 350 KG Winch, 1 HP Motor, SS wire Rope 65 Mtr Length, Moulded Cable 4SqmmX3 Core 30 Mtr Length, D clamp Tumble,Crane charges, Labour charges	Each	1
3	Supplying & fixing of 20 Mtr Highmast accessories that include Winch Plate, 350 KG Winch, 1 HP Motor, SS wire Rope 65 Mtr Length, Moulded Cable 4SqmmX3 Core 30 Mtr Length, D clamp Tumble,Crane charges, Labour charges	Each	1
4	Supplying & fixing of 30 Mtr Highmast accessories that include Winch Plate, 350 KG Winch, 1 HP Motor, SS wire Rope 65 Mtr Length, Moulded Cable 4SqmmX3 Core 40 Mtr Length, D clamp Tumble, Crane charges, Labour charges	Each	1

5	Fabricating, supplying and erecting swaged tubular pole of hight 7.5 Mtr having three sections and providing two coats of red oxide paint and finished with two coats of enameled paint of approved quality and colour and M.S.Base plate of suitable size welded at the bottom of the pole (as per IS) and 40mm dia GI / flexible PVC pipe of Mtr. Length fitted to the heavy gauge polycarbonate control box including 5way connector of size 167x125x82mm for 7.5M pole /200x160x98 mm for remaining length of pole with front opeaning cover, with locking arrangements and suitable capacity MCB /DP switch. The pole shall be erected n cement concrete work (1:2:4) including excavation and refilling of planting depth of the pole to the ground level and the coping CC shall be up to 0.6M above ground level as per IS 2713–7.I Erection of light duty pole on-foot path.a) 7.5 Mtr(4.5M Hb 114.3mm dia 4.05mm thick x 1.5M Hm 88.9mm dia 4.05mm thick x 1.5M Ht, 76.1mm dia 3.25mm thick) as per IS 410 SP 5 (Base plate of size 300x300x6mm).	Each	1
6	Fabricating, supplying and erecting stepped / welded tubular pole of height 3.5 Mtr having three sections, and providing two coats of red oxide paint and finished with two coats of enameled paint of approved quality and colour. and M. S. Base plate of size 150 mm X 150 mmX 6mm thick welded at the bottom of the pole. 32mm dia GI/flexible PVC pipe of 1 mtr length fitted to the existing Polycarbonate box. control box 1 No. of 4 way connector in case of cable looping. The pole shall be erected in cement concrete of (1:3:6) including excavation and refilling and (1;2;4) coping. 3.5Mtr (Top 0.5 Mtr. X 2” dia, Middle 1 mtr., X 2.5” dia, Bottom 2 mtr., X 3” dia)	Each	1
7	Supply and Installation/ Fixing/ Provision of Outdoor type Thermoplastic Modular Panel enclosure with transparent PolycarbonateLid, shockproof, IP65 (WeatherProof), rust proof, dust proof, water proof, corrosion proof having internally Embedded gasket on both lid and flap suitable to fix Single Phase/ Three Phase Energy Meter insuitable base plate and having a provision for Fuse/ MCB cut-out with suitable transparent hinged flap opening for operating MCB along with complete tamper proof SEALING facility. 250mmX250mmX214mm	Each	1
8	Supplying and fixing of 4 No Flood light fixing GI ring type arm bracket. 42 mm OD, 2mm tickness pipe, 600 mm length, 50x5mm tickness plate for flood light fixing, 33 OD x 2mm tickness supporting pipes- 3 Nos, Header pipe 88.9 OD x 3 mm tickness x 250 mm length suiatable GI fastners.	Each	1
9	Intelligent Light Monitoring System(ILMS) for Streetlights consisting of: Supply and erection of single phase smart streetlight control and monitoring system to remotely control and monitor using web or mobile application Remote lighting management operating on Master control unit (consists of Input Voltage 230 V AC+/- 10% Frequency: 50 Hz +/-5%,	Each	1

	Input Current < 500mA, @230 V, Surge Protection 1Kv, On-Board Regulator for Digital Devices:5V DC +/= 5%, Microcontroller Operating Frequency: 240MHz, Built-in Real Time Clock, Built-in Li-Ion Battery for RTC: 3.6V/600mAH, RTC Operating Frequency :32.768KHz, RTC Back-up Time without Power :15 Days, Non-volatile Built-in Memory to store Data, Latch Relay: Single, Relay Coil Voltage : 12V DC) (MCU) : handles controlling data and other communication process. Communication Unit: GSM/GPRS Switching : Latch Relay Embedded Firmware: firmware to control, handle, process the data and communicate it wirelessly Enclosure: 18swg CRCA MS sheet enclosure weather proof IP 65		
10	Application Software for ILMS and Android application for Smart phone. The Application is based on a robust algorithm which updates all the parameters mentioned at specified intervals where each ILMS Unit can be monitored separately. Each ILMS Unit can be controlled through the Application either manually or can be set to autonomous control based on Astronomical clock. Reports alerts when there is a discrepancy in Voltage Supply or Load which can be set on standard practice and switches OFF the Unit till the discrepancy is nullified. When someone opens the door of the ILMS Unit stating the exact location of Unit. It give alert stating exact reason for the Fault which could be Over Voltage, Over Current or Door Alarm	Set	1
11	Supply an erection of single phase 100amps Thyristor based street Light control system consisting of : Microcontroller based Electronic Timer with RTC, 2 x 16 LCD with back light, 5 Tactile Keys, 106 amps Thyristor module for load switching mounted on extruded aluminium heat sink, Thyristor driver card for switching Thyristor module, 1 number 63 Amps single pole MCB for manual switching, 1number 100 amps 3pole MCCB for overload protection and manual switching,: 18swg CRCA MS sheet enclosure weather proof IP 65	Each	1
12	Supply and Installation of Electronic Timer for streetlights consisting of Microcontroller based electronic timer with RTC, 2X16 LCD wit back light, 5 Tactile Keys	Each	1
13	Remote control and monitoring of individual streetlight using LoRa communication technology: A LoRa-based street lighting system utilizes LoRa (Long Range) communication technology to create a low-power, wide-area network (LPWAN) for the remote control and monitoring of streetlights. Each streetlight node is equipped with a microcontroller, a LoRa transceiver, and sensors such as LDRs or PIR for ambient light detection and motion sensing.	Each	1

	These nodes communicate wirelessly with a central LoRa gateway, which connects to a cloud server or local control center via Wi-Fi, Ethernet, or cellular networks. The system allows scheduled ON/OFF control and fault detection (e.g., lamp failure, power issues). This architecture is highly scalable, cost-effective, and ideal for deployment in smart cities and remote areas where traditional communication infrastructure is limited.		
14	Supplying and fixing of 4 No Flood light fixing GI ring type arm bracket. 42 mm OD, 2mm tickness pipe, 600 mm length, 50x5mm tickness plate for flood light fixing, 33 OD x 2mm tickness supporting pipes- 3 Nos, Header pipe 88.9 OD x 3 mm tickness x 250 mm length suiatable GI fastners.	Each	1

Calendar of Events

1. Quotation documents may be downloaded from the e-procurement portal from **23-06-2025.**
2. Quotation Clarification at the Office of the **Executive Engineer Electrical (South)** Before **: 24.06.2025 at 04.00 P.M**.
3. Last Date & Time for receipt of tenders is: **01-07-2025 up to 4.00 P.M**.
4. Quotation opening date : **02-07-2025 at 4.30 PM**.

Sd/-

Executive Engineer

Electrical
South.

Copy to :

1. Chief Engineer (South) for kind information.
2. Chief Engineer (Electrical) for kind information
3. Notice Board/ Office Copy.

Executive Engineer

Electrical South